

SEQUENCE LISTING

<110> Waterhouse, Peter M

Wang, Ming-Bo

Graham, Michael W

Commonwealth Scientific and Industrial Research Or

<120> Methods and means for obtaining modified phenotypes

<130> echidna

<140>

<141>

<150> US SN 09/056,767

<151> 1998-03-08

<150> US SN 09/127735

<151> 1998-08-03

<160> 7

<170> PatentIn Ver. 2.0

<210> 1

<211> 854

<212> DNA

<213> Potato virus Y

<220>

<223> fragment of the NIa ORF

<400> 1

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tcgacgtgaa ggacatacca gcacaggagg tggaacatga agctaaatcg ctcattgagag 180
gcttgagaga cttcaaccca attgcccaaa cagttttagtag gctgaaagta tctgttgaat 240
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aaagaatttg tttagttgga accaactttc aggagaagta tgcacgtcgc atcatcacag 540
aagcaagcac tacttacaat ataccaggca gcacattctg gaagcattgg attgaaacag 600
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acagtttggc aaacaatgca cacaccacga actactactc agcctttgat gaagattttg 720
aaagcaagta cctccgaacc aatgagcaca atgaatgggt caagtcttgg atttataatc 780
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854

<210> 2
 <211> 2186
 <212> DNA
 <213> Artificial Sequence

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<223> Description of Artificial Sequence: coding region
 of the Gusd CoP construct

<220>

<221> misc_structure

<222> ()..)

<223> deficient Gus coding region

<220>

<221> misc_feature

<222> ()..(2186)

<223> antisense to the 5' end of the Gus coding region

<400> 2

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gaaagccggg caattgctgt gccaggcagt tttaacgata agttcgccga tgcagatatt 180
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<210> 3

<211> 208

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:5'UTR of
Johnson mosaic virus

<400> 3

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tcgcacagag ataagcagga aaccatggca ggtgagtgga acacagtttg atagtaagag 180
aaaccagagg aagactgcag gtacccgc 208

```

<210> 4

<211> 1150

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Subteranean
clover virus S4 promoter with S7 enhancer

<400> 4

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gcttatgagg aataaagaat gattaatatt gtttaatttt attccgcgaa gcggtgtgtt 120
atgtttttgt tggagacatc acgtgactct cacgtgatgt ctccgcgaca ggctggcacg 180
gggcttagta ttaccccgctg ccgcatcaga gacatttgac taaatattga cttggaataa 240
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aaagtaggaa attgctcgct aagttattct tttctgaaag aaattattta attctaatta 480
aattaaatga gtcgctataa atagtgtcga tgctgcctca catcgattc ttcttcgcat 540
cgtctgttct gggttttaagc gggatccagg cctcgagata tcggtacctt gttattatca 600
ataaaagaat ttttattgtt attgtgttat ttggtaattt atgcttataa gtaattctat 660
gattaattgt gaattattaa gactaatgag gataataatt gaatttgatt aaattaactc 720

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tgccaagcta tatgtctttc acgtgagagt cacgtgatgt ctccgcgaca ggctggcacg 780
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 gcgtaaagaa taagcgtact cagtacgctt cgtgggcttta tataaatagt gcttcgtctt 1080
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<210> 5

<211> 1052

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: subterranean
clover virus promoter S4 with S4 enhancer

<400> 5

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 actaatgagg ataataattg aatttgatta aattaactct gcgaagctat atgtctttca 180
 cgtgagagtc acgtgatgtc tccgcgacag gctggcacgg ggcttagtat taccctgtgc 240
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 gaagtaaaga atagtggaaa acgcgtaaag aataagcgta ctcagtacgc ttcgtggctt 960
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<210> 6

<211> 1583

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: coding
sequence of the desaturase CoP construct

<220>

<221> misc_feature

<222> (1)..(480)

<223> corresponding to the 5' end of the
delta12-desaturase (fad2) coding region, in sense
orientation

<220>

<221> misc_feature

<222> (1101)..(1583)

<223> corresponding to the 5' end of the
delta12-desaturase (fad2) coding region, in anti
sense orientation

<400> 6

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gacacagttg gtcttatctt ccattccttc ctctcgtcc cttacttctc ctggaagtat 240
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gtaagcaccg gatactgggt ctatggtcaa tctgtgtcg gaactgtccg gggtatctca 1500
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<210> 7

<211> 786

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: intron 2 of
the *Flaveria trinervia* purvate orthophosphate
dikinase

<400> 7

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atattgttta cataaacaac atagtaatgt aaaaaaatat gacaagtgat gtgtaagacg 180
aagaagataa aagttgagag taagtatatt atttttaatg aatttgatcg aacatgtaag 240
atgatatact agcattaata tttgttttaa tcataatagt aattctagct ggtttgatga 300
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ttttttatga ttaatagttt attatataat taaatatcta taccattact aaatatttta 420
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caaaatatta aataacaagc taaagtaaca aataatatca aactaataga aacagtaatc 540
taatgtaaca aaacataatc taatgctaata ataacaaagc gcaagatcta tcattttata 600
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